

### Attachment B – NBC WWTF Flow Diagram

The flow diagram illustrates the wastewater treatment process at the NBC WWTF. Wastewater from various sources (Paunch, Kill, Fabrication, Rendering, Boiler, Refrigeration) enters the system and passes through a screen. The screened effluent is then treated in two DAF (Dissolved Air Flotation) units. The effluent from the DAF units, along with Pen Wash Wastewater, enters Pond 1 (Anaerobic). Pond 1 produces  $\text{CO}_2 + \text{CH}_4$  gas, which is sent to a heat exchanger and then to the boilers. The effluent from Pond 1 flows into Pond 2 (Aerobic), which then flows into Pond 3 (Anaerobic). A pump transfers effluent from Pond 3 to a Flocculation Tank. The effluent from the Flocculation Tank enters the SAF (Solids Air Flotation) tank. The effluent from the SAF tank is sent to the city. The solids from the SAF tank are sent to a Roll Off Bin. The effluent from the Roll Off Bin enters a Conditioning Tank. The Conditioning Tank has two outputs: one to a Belt Press and another to a Filtrate tank. The Belt Press sends effluent to the Roll Off Bin. The Filtrate tank sends effluent to the Flocculation Tank. The Conditioning Tank also receives effluent from the Flocculation Tank. The Conditioning Tank sends effluent to the Flocculation Tank. The Conditioning Tank sends effluent to the Flocculation Tank. The Conditioning Tank sends effluent to the Flocculation Tank.

